

# Day in the Life of the Hudson River 10/12/17 Data

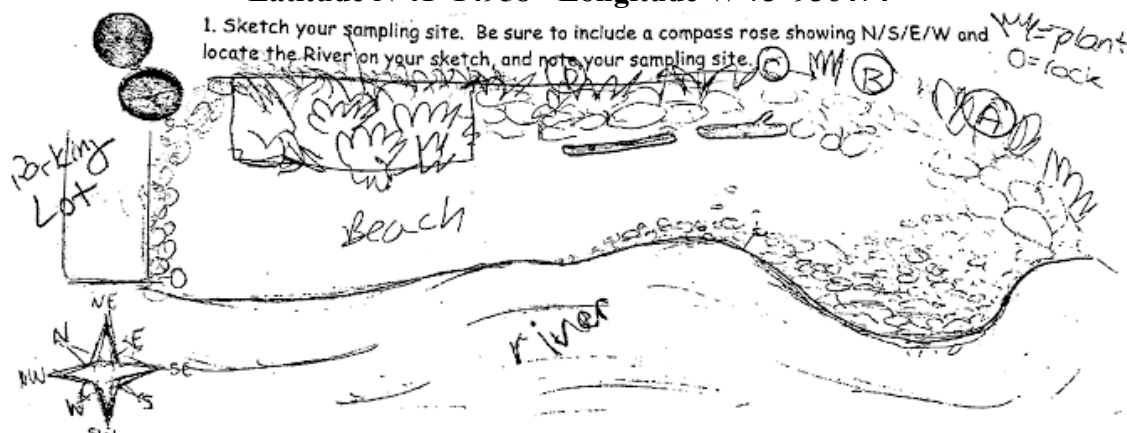
(Salt Front ~ RM 65)

RIVER MILE 41

Steamboat Dock Park, Verplanck, Westchester

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Environmental Research and Field Biology - Genesis Group 9<sup>th</sup> - 12<sup>th</sup> graders –  
30 students, 4 teachers

Latitude N 41°14958 - Longitude W 73°936474



**Location:** Steamboat Dock Park beach, City of Verplanck in Westchester County

**Area:** located in a small cove between a point and a bulkhead – Pier, Grassy, Parking Lot

**Surrounding Land Use:** 30% urban/residential, 35% beach, 35% parking lot

**Sampling Site:** beach and parking lot

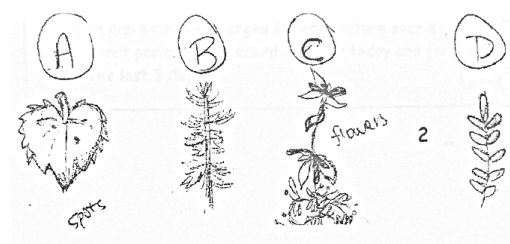
**Shoreline:** Sandy, rocky

**Plants in area:** no plants in water

**Other:** No plants in water but plants in the area around

**Water Depth:** 2ft

**River Bottom** – muddy, sandy, rocky



ITEM	Time	Readings		Comments
<b>Physical</b>				
Air Temperature	9:50	55°F	13°C	
	10:34	58	14	
	11:02	59	15	
Wind Speed	9:56	Beaufort 4	From North	6 mph
Cloud Cover	9:58	Partly cloudy (26-50%)		
Weather today	Rained this morning			
Weather recently	Clear past 2 days, rain today			
<b>Water Surface</b>	Calm			

<b>Water Temperature</b> (2ft)	10:29	73.8°F, 73.8, 73.8	23.2°C, 23.2, 23.2	
<b>Turbidity – Long sight tube</b> (cm)	9:42 10:21 10:55	31.2, 30.2, 23.0 31.8 35, 33.1, 20.9	Average 28.1 31.8 29.7	
Observations: The water when first placed in the tube was very cloudy. You could not see the block that was on the bottom of the tub unless you released the water. It's rusty.				
<b>Chemical</b>				
DO (drop kits)	10:30 10:40 10:45	23.3°C 23.3 23.3	8ppm 8ppm 8ppm	100% sat 100% sat 100% sat
pH (color match test kit)	10:30 10:55	7.5, 7.5, 7.5 8, 8, 8		
Salinity YSI SCT meter	10:29	7.3 ppt		
Alkalinity (color match test kit)	10:30	80, 100, 80mg/L	Average: 86.7mg/L	
Nitrates (color match test kit)	10:36	0.02, 0.02, 0.02mg/L	Average: 0.02mg/L	
Phosphates (color match test kit)	10:38	0.82, 0.82, 0.82mg/L	Average: 0.82mg/L	
<b>Fish Catch-9:45 AM</b>	<b>Number Caught</b>	<b>Species</b>	<b>Size of largest</b>	
1 seine	3	Striped Bass	10.2cm	<b>DIV 4</b>
	20	Silversides	15.2cm	<b>TOTAL CATCH 31</b>
	1	Bluefish	15.2cm	
	7	White Perch	12.7cm	
<b>10:30</b>				
2 seines	5	Striped Bass	10.2cm	<b>DIV 3</b>
	5	Silversides	10.2cm	<b>TOTAL CATCH 17</b>
	7	White Perch	10.2cm	
<b>11:30</b>				
1 seine	6	Striped Bass	10.2cm	<b>DIV 2 CATCH 13</b>
	7	Silversides	10.2cm	
<b>Total Fish</b>	<b>61</b>	<b>TOTAL DIV</b>	<b>4</b>	

<b><i>Catch</i></b>				
<b>Macro catch</b>	<b>Number caught</b>	<b><i>Species</i></b>		
	25	Green Crabs		
	20	Moon Jelly		
<b><i>Coring</i></b>	<b><i>Condition</i></b>	<b><i>Rare</i></b>	<b><i>Common</i></b>	<b><i>Abundant</i></b>
Length: 10.2cm		Mud Wood Freshwater Mussels	Brick	Sand Gravel Pebbles
<b><i>Tides</i></b>	8:32 8:54 10:15 10:30 10:45 10:50 11:13	71cm 68 64 67 26 67.5 27	Boat wake  Boat wake	
<b><i>Current *</i></b>	<b>Time</b>	<b>Cm/30sec</b>	<b>Cm/sec</b>	<b>Knots</b>
Full sampling time	9:00	40	<b>1.3</b>	<b>0.03</b>
	9:51	43	<b>1.4</b>	<b>0.03</b>
	10:18	21.8	<b>0.73</b>	<b>0.01</b>
	10:28	30.8	<b>1</b>	<b>0.02</b>
<b><i>Traffic Commercial</i></b>	<b>Name</b>	<b>Type</b>	<b>North/South</b>	<b>Loaded/Light</b>
10:45 11:00 12:00	Red  White/red	Gravel Barge Tugboat	South South South	Loaded Loaded Light
<b><i>Traffic Recreational</i></b>	<b>Type</b>	<b>Name/color</b>	<b>North/South</b>	<b>Loaded/Light</b>
10:22	Speed boat	Red/white	South	Light
<b>Animals</b>	Bald Eagles (2), Canadian Geese (16), herring gulls (20), Cormorant (1), Monarch butterflies (2), Mallards (6), Turkey vultures (4)			
<b>Other Observations</b>	Rocks around beach. Rocks, Brick, logs on beach, plants around perimeter of sample area.			